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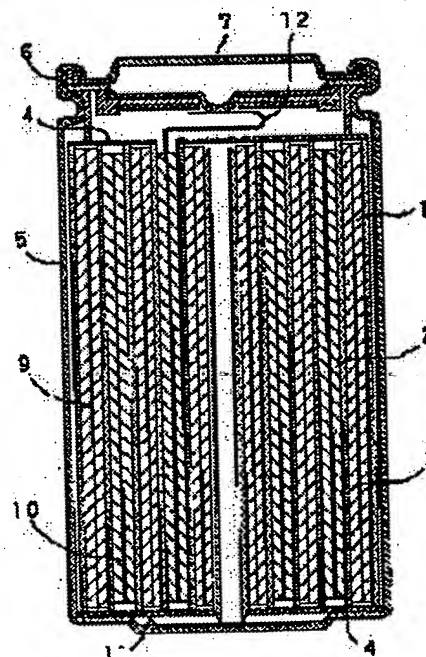
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(54) NONAQUEOUS ELECTROLYTIC SECONDARY BATTERY

(57)Abstract:

PURPOSE: To improve battery performance even under a heavy load condition or even under a low temperature condition by forming a nonaqueous solvent of mixed solvent of annular carbonate, dialkylester compound, etc., so as to improve a storage characteristic and capacity holding factor under a high temperature condition.

CONSTITUTION: A nonaqueous electrolytic secondary battery is constituted of a positive electrode 2 formed of a combined compound of lithium and transition metal, negative electrode 1 formed of carbon material capable of doping/ dedoping lithium and a nonaqueous electrolyte formed by melting an electrolyte in a nonaqueous solvent. A dialkylester compound of constituting a nonaqueous solvent with annular carbonate which is a high dielectric solvent, annular carbonate alkyl substitute annular ester compound and an alkylester compound are added for improving conductivity of the nonaqueous electrolyte. By using these solvents as a mixed solvent with annular carbonate and combination or the like of dialkylester compound and chain carbonate battery performance can be improved.



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